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PHILIPS



LED Luminaires

city beautification

lighting solutions that really last



Architectural lighting plays a central role in the way people feel about their living environment. Employed imaginatively, it can create a poetry of daily life by elevating the mundane and banal through a reinterpretation of everyday city objects and buildings.



The MASTER Collection – Lighting Solutions that make business sense. Offering best in class energy efficiency and lifetime reliability, MASTER collection lamps, luminaires and control gear minimise the total cost of ownership of your total lighting solution. You can make significant savings straight away simply by replacing standard lamps with MASTER lamps. Or you can make even more dramatic savings by switching your whole lighting system to MASTER collection.



a stroke of genius

Thanks to Philips Lighting's ability to generate new experiences and emotions, we can help shape an inclusive, socially dynamic city. A place where people can feel part of a shared beauty that transcends their daily existence and links them to each other, to their past, and to an enlightened quality of life.

More and more, the expression of a town or city's architecture will come from its lighting rather than from its structure. If buildings are the monumental canvases on which lighting designers paint their artistic vision of urban renewal, then light has helped to deliver their most telling brushstrokes.

And now Philips is expanding the palette with a host of light-emitting diode (LED) lighting solutions, a new concept based on cutting-edge LED technology that will enable lighting designers to realize beauty with light, turning their vision

into reality. Opening up a virtually infinite range of effects, Philips LED luminaires are versatile enough to allow light to fill or underline, graze or pinpoint, mark or blend. With a choice of up to five colors, including white, they give free rein to the architect's and designer's creativity.

How it works

The basic structure of a LED consists of a dye or a light-emitting semiconductor material, a lead frame in which the dye is placed, and the encapsulation epoxy that surrounds and protects the dye. The semiconductor crystal, which is laboratory-grown, emits light initiated by a forward current within the LED. The light color varies depending on the nature and composition of the crystal used. Performance levels are continuing to rise dramatically. New packages are increasing the cooling efficiency for the dye, thus permitting higher current levels and hence higher light output.

key features of LEDs

Longer lasting

LEDs last up to 100 times longer, and up to three times more efficient than today's standard incandescent lamps.

Reduced maintenance cost

Since LEDs last longer than a normal light source, there is no need for frequent replacements thereby reducing or even eliminating ongoing maintenance and re-lamping expenses.

More energy efficient

LEDs are more efficient than incandescent and most halogen light sources, using up to 90% less energy.

Better design flexibility

LEDs are typically much smaller than conventional light sources, allowing for dramatically different lighting designs capitalizing on the unobtrusiveness of the source. Designing with LEDs can enable

completely hidden sources of light, eliminating large visual luminaires, and creating a magical effect when illuminated.

Vivid colors

LEDs do not require filters to create colored light, resulting in deeper saturated colors. Deep reds, greens, blues and other colors can be produced in monochromatic form directly from the solid-state element.

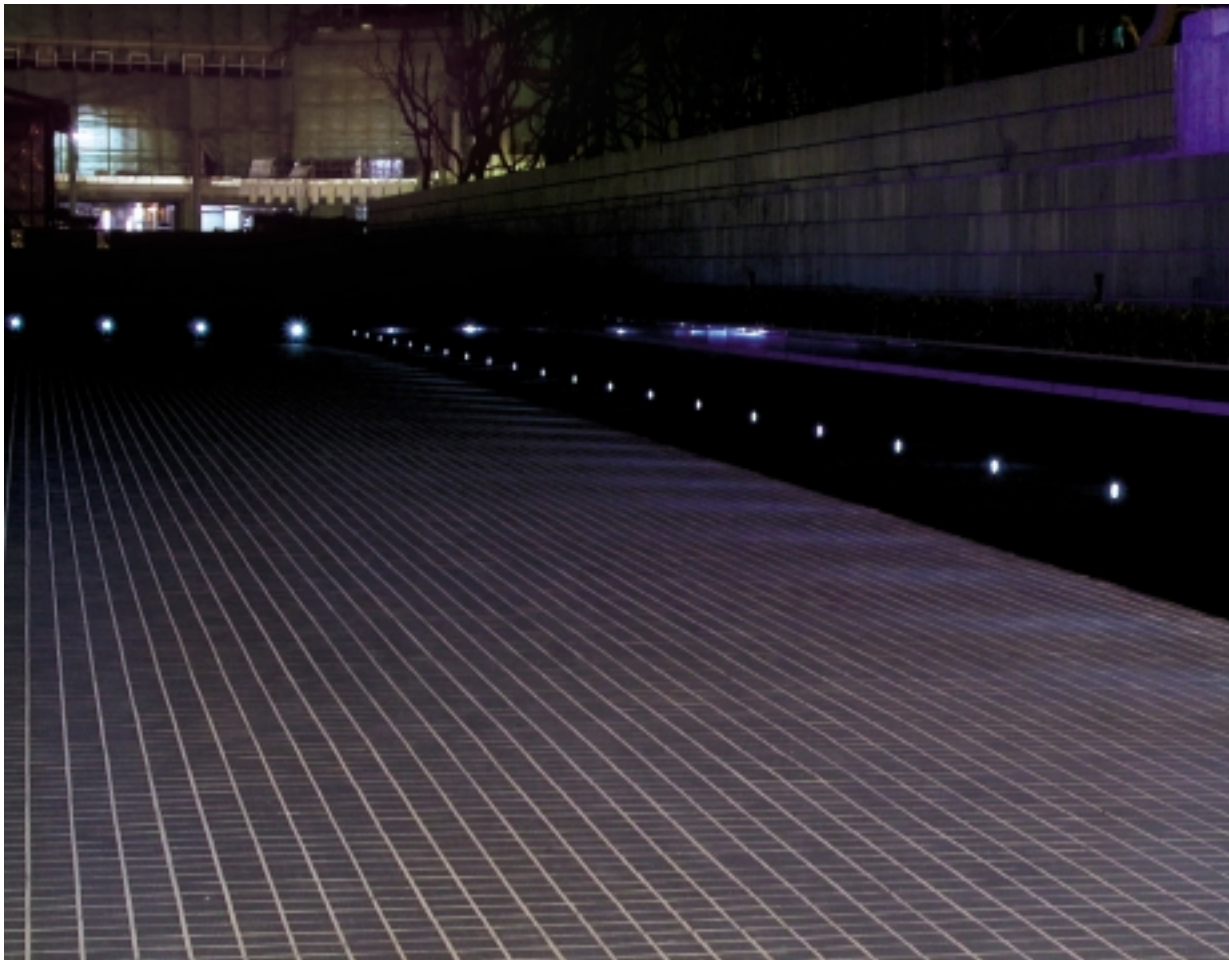
High reliability

The solid-state nature of LEDs makes them extremely rugged and durable — an excellent choice for city lighting where reliability and dependability are paramount.

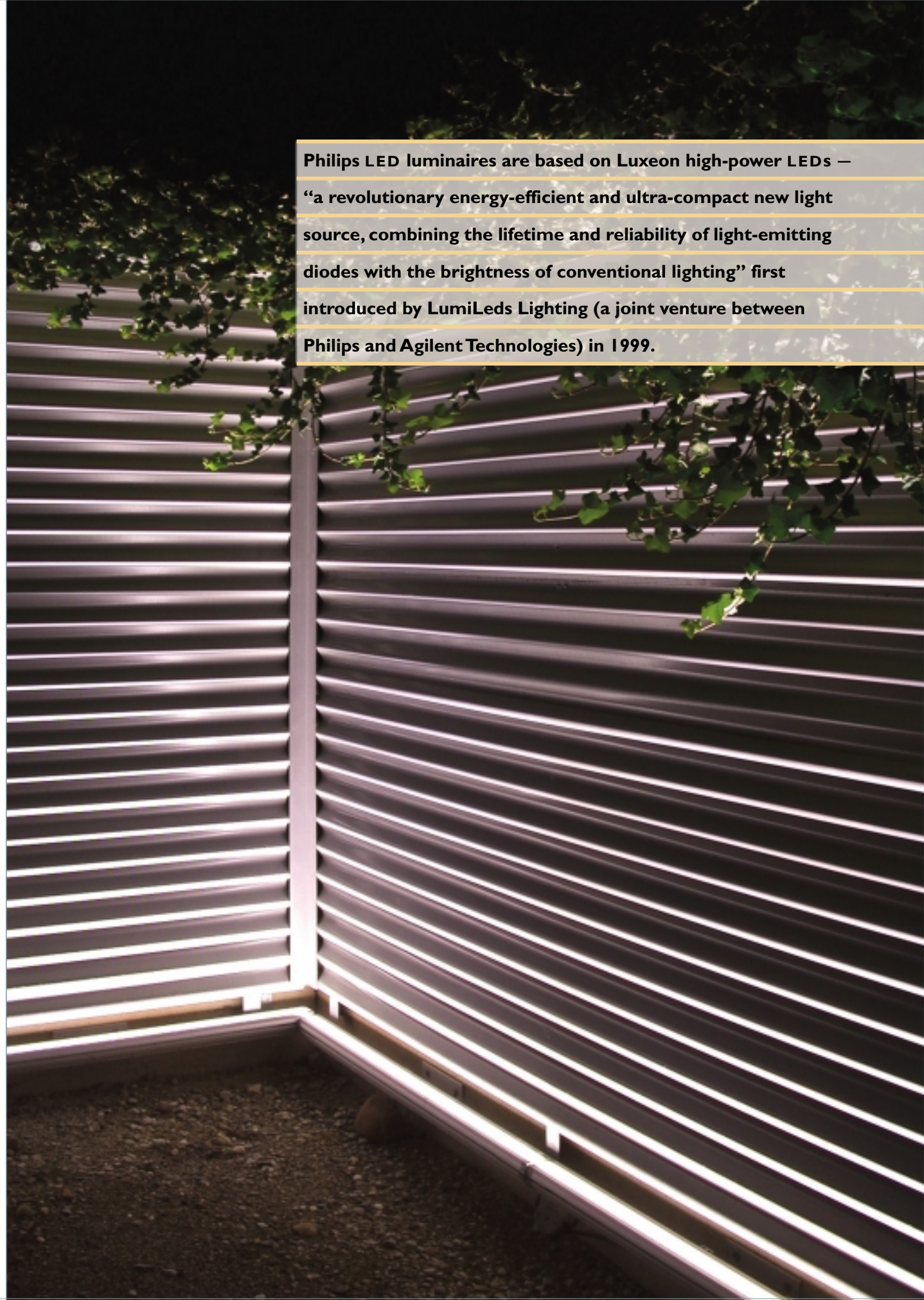
Environmentally friendly

LEDs do not contain any mercury. And since they last longer, there is less waste disposal in the environment.





Philips LED luminaires are based on Luxeon high-power LEDs — “a revolutionary energy-efficient and ultra-compact new light source, combining the lifetime and reliability of light-emitting diodes with the brightness of conventional lighting” first introduced by LumiLeds Lighting (a joint venture between Philips and Agilent Technologies) in 1999.



LedStrip I and LedStrip II



The Philips LedStrip is a new concept for illuminating and enhancing contemporary architecture and historical monuments with colored light. Based on high-power LEDs, this linear floodlight creates a controlled, soft wall wash accent with five clearly defined color bands, opening up the possibilities for exciting new lighting effects.

Features

- Modular luminaire concept based on unit boards of 12x1w LEDs
- 300, 600, 900 and 1200mm options to enable long straight lines or curves
- Unique highly efficient collimating optic captures maximum available light and produce a tight beam of 2 x 3 degrees

- 5 color options: White, Red, Amber, Blue, Green
- Extruded aluminium housing, rated IP65
- 55V DC operating voltage
- Remote driver box converts mains voltage to 55V DC, designed to run between 8.5 and 11m (color dependent)
- Fixed close to the wall by adjustable universal jointed bracket for precise aiming
- 10 years sealed for life; 50,000 hours rated life (at 70% lumen maintenance)
- Dimmer option available

Benefits

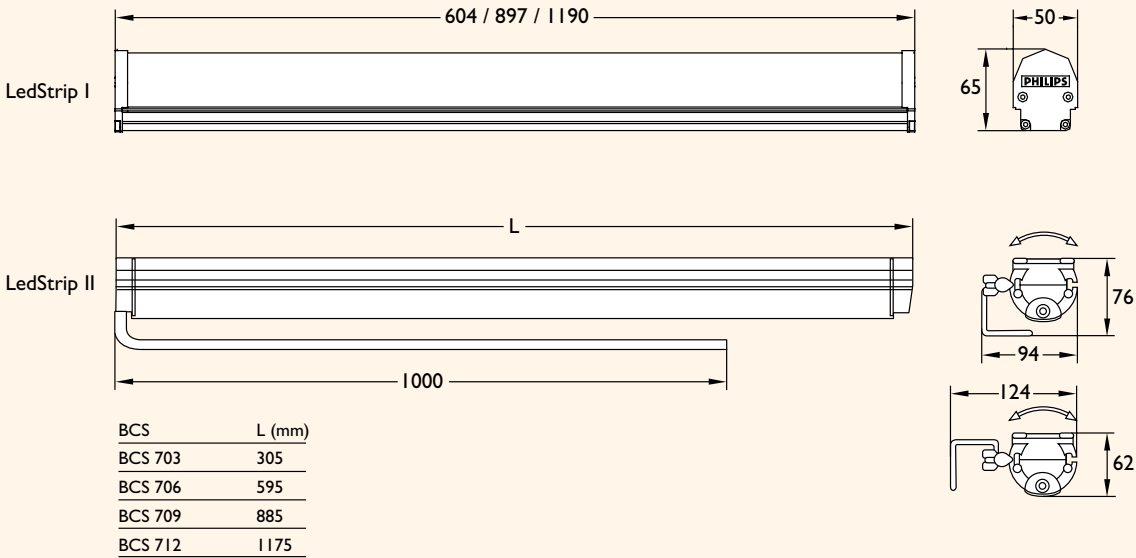
- Ability to wash a surface up to 10m to reveal form and texture
- Slim profile offering better design flexibility
- Low power consumption and extremely long life
- Low installation and maintenance cost
- Uniform continuous wash of pure color allows the designer to 'paint' with light

Main applications

- Bridges
- Balustrades
- Arches
- Cornices

Note: RGB color mix is available upon request

Product dimensions



Measurements in mm

LedSpot



The Philips LedSpot luminaires give you the ability to create an outdoor ambience with a hidden light source. It is all you need to bring parks and gardens to life and extend the comfort and ambience of a cozy living room out into your outdoor living space.

Features

- A double protection layer ensures maximum performance. Electronics are first sealed in epoxy for complete water-resistance and then placed in an IP65 die-cast aluminium housing. The LED is

sealed with high performance silicone and placed in an IP65 precision-molded holder

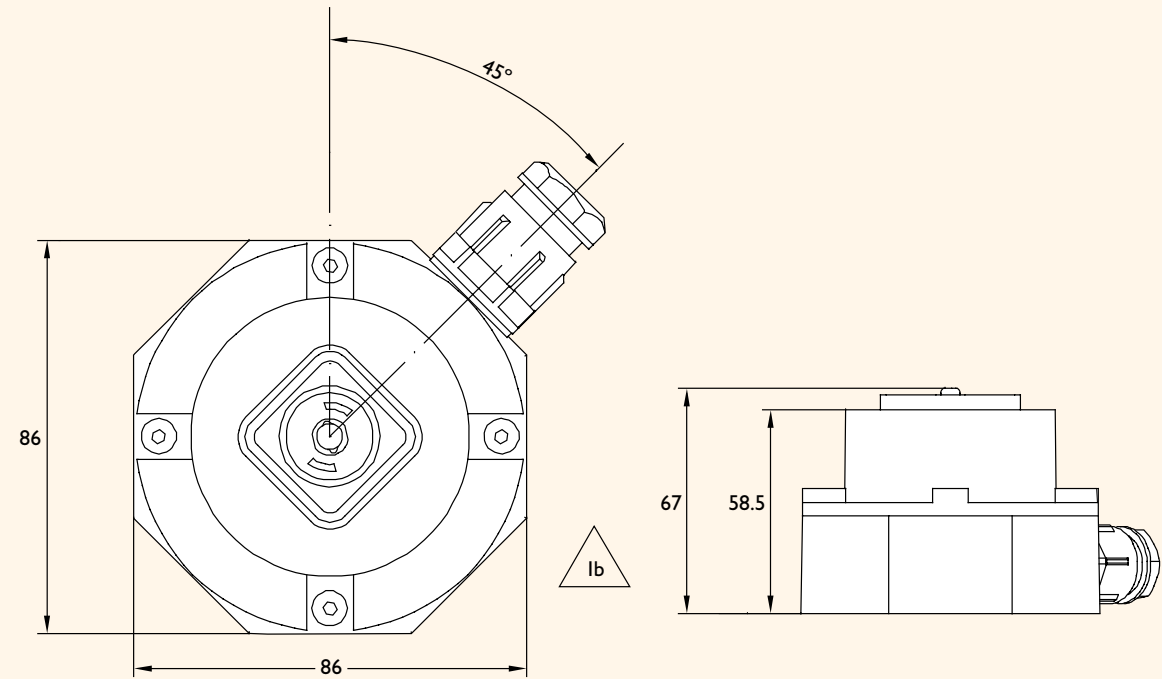
- Highest grade, ultra-bright LEDs are used to provide high brightness and a consistent wave color
- An integral wiring box design ensures wiring protection

Main applications

- Façade
- Landscapes

Note: RGB color mix is available upon request

Product dimensions



Measurements in mm

LedUplight 100mm/150mm

A clean, smooth color image on the ground or a wall creates an elegant, tranquil atmosphere. The new Philips LedUplight delivers precisely that. Its heat-free surface coupled with low voltage is ideal for children's playgrounds, water parks or wherever you want stunning light effects.

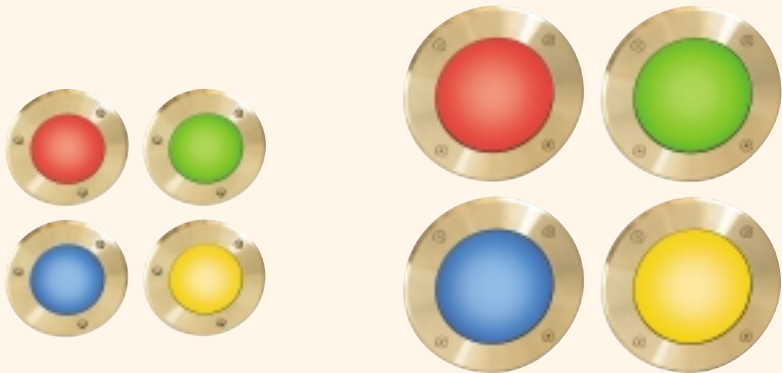
Features

- Dynamic color changing capability
- Ability to create 16.67 million uniform, smooth and brilliant colors without revealing any lamp image

- Proprietary CAM-C technology allows LedUplight to be programmed individually and connected to the whole area without any data degradation
- A quick-connecting IP67 cable coupled with various mounting accessories makes installation easy and flexible

Main applications

- Façade
- Landscapes



Note: RGB color mix is available upon request

LedStep-Square

Featuring high-power LEDs, this linear floodlight, with its precise light distribution and uniform illuminance, is ideal for scene setting. With several clearly defined color bands, it can create a controlled, soft light, opening up a wide range of creative options and effects. The Philips LedStep is available for both in-ground or recessed wall applications.

Features

- Dynamic color changing capability
- Ability to create 16.67 million uniform, smooth

and brilliant colors without revealing any lamp image

- Proprietary CAM-C technology allows LedStep to be programmed individually and connected to the whole area without any data degradation
- A quick-connecting IP67 cable coupled with various mounting accessories makes installation easy and flexible

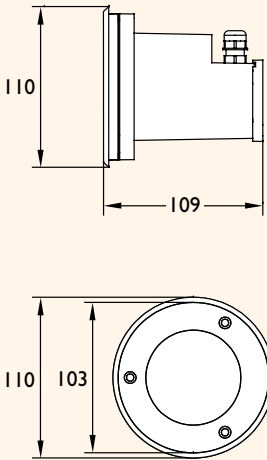
Main applications

- Façade
- Landscapes

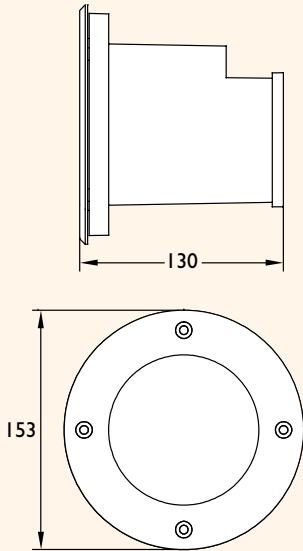
Note: RGB color mix is available upon request

Product dimensions

LedUplight 100mm

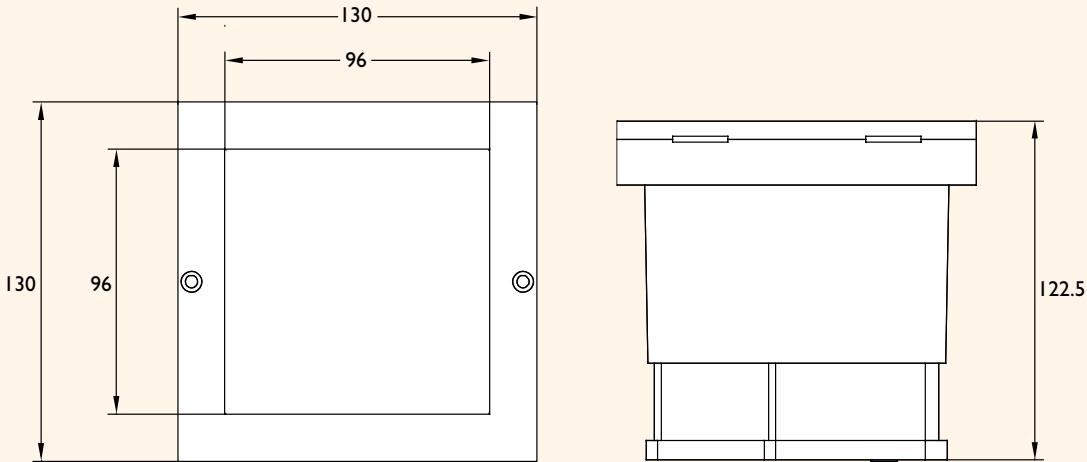


LedUplight 150mm



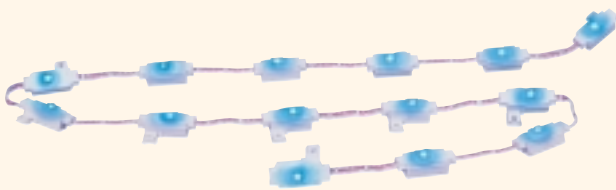
Measurements in mm

Product dimensions



Measurements in mm

LedString



The Philips LedString system is formed by LED modules, connected by wires and designed to be directly mounted onto a sign back-plate or other substrate. The driver is a single device which converts the main voltage to a low voltage DC required to operate LedString.

Features

- Available in 21mm reels of LEDs, with a slim driver: both fully weather proof
- Each driver has a minimum connection of 5 LEDs (Red and Amber) or 7 LEDs (Blue and Green). Maximum connection is 45 LEDs or 49 LEDs respectively
- Standard range: Red, Amber, Blue, Green and White
- Safety compliance: EN 60598

- Ingress protection: IP 66 (EN 60598, EN 60529)
- Approval marks: ENEC, CE, cCSAus.
- Quality standard: ISO 9001-2000
- Environmental standard: ISO 4001

Benefits

- Reliable and flexible
- Low cost of ownership
- Long life
- Safe to use: no high voltages or toxic materials
- Easy to install
- No breakage during shipping and handling

Main applications

- Outdoor signage
- Decorative lighting

LedMaster 800

Controller

The LedMaster 800 is a compact and powerful controller in the Philips LED range of color changing luminaires. LedMaster 800 possesses tremendous controlling power to command up to 720 units of the LED color changing luminaires.



Features

- Extremely diverse color changing effects – up to 32 sequencing effects in descriptive language with minimum memory storage
- Connects up to 8 sub-controllers for a maximum of 720 units of true-color LED luminaires
- Built-in 64K non-volatile memory to store up to 32 sets of programs
- Equipped with 5 sets of DIP switches that allows manual settings of 32 pre-set programs
- RS-232 port – serves as an interface between LedMaster 800 and PC software; or as a gateway to other control systems

Main applications

- Façade
- Landscapes

Power Supply

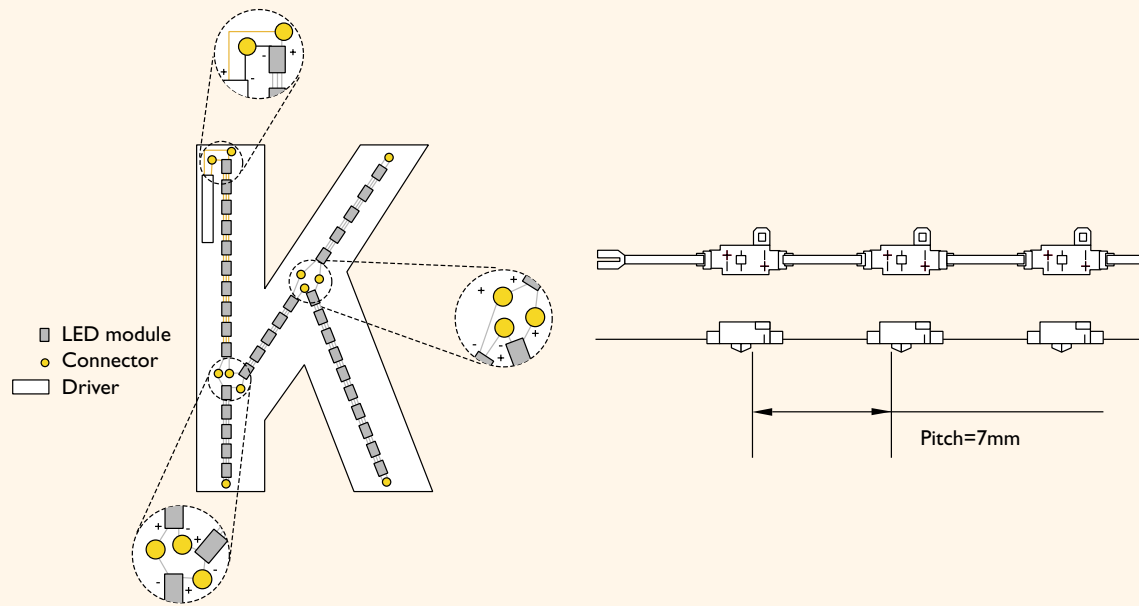
The LedMaster 800 Power Supply is an integrated device panel and serves as a power source for the Philips LED range of color changing luminaires. It also serves as the data repeater hub of its controller.



Features

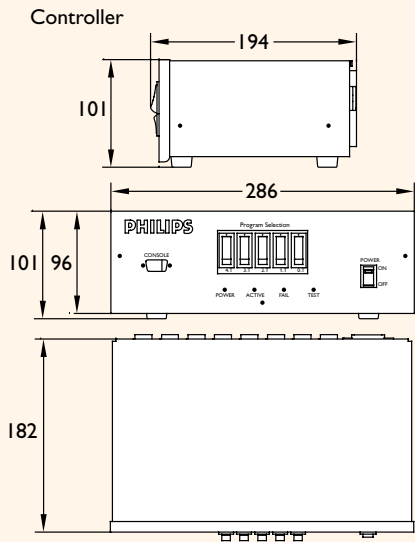
- Optimizes power supply for R, G, B diodes of the LED luminaires thereby providing constant power for dynamic color changing ranges of each color
- An embedded data repeater allows LED luminaires to be installed over long distances. This is especially beneficial to motion-picture-like programming
- With 7 power output ports, the system can support up to 7 circuits of LED luminaires with a maximum power limit of 100W x 3

Product dimensions

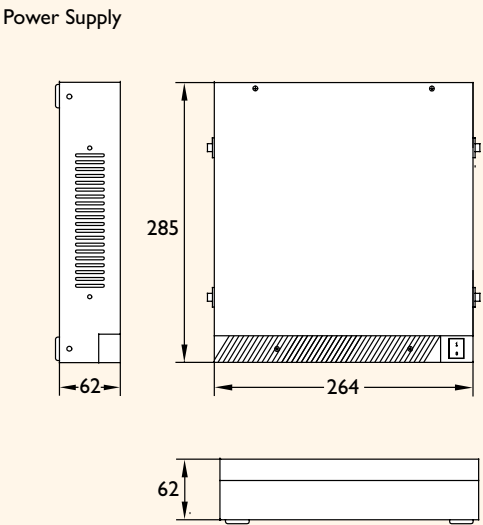


Measurements in mm

Product dimensions



Measurements in mm



LedStrip I

Ordering Data					
Type	Color	Total weight (kg)	Packing dimensions (mm)	Quantity per box	Ordering number
BCS606/40 A	Amber	4.5	608 x 370 x 82	4	9104 033 34880
BCS606/40 G	Green				9104 033 34980
BCS606/40 B	Blue				9104 033 35080
BCS606/40 R	Red				9104 033 35180
BCS606/40 W	White				9104 033 35280
BCS609/60 A	Amber	6.8	900 x 370 x 82		9104 033 35380
BCS609/60 G	Green				9104 033 35480
BCS609/60 B	Blue				9104 033 35580
BCS609/60 R	Red				9104 033 35680
BCS609/60 W	White				9104 033 35780
BCS612/80 A	Amber	9	1195 x 370 x 82		9104 033 35880
BCS612/80 G	Green				9104 033 35980
BCS612/80 B	Blue				9104 033 36080
BCS612/80 R	Red				9104 033 36180
BCS612/80 W	White				9104 033 36280

LedStrip II

Ordering Data					
Type	Color	Total weight (kg)	Packing dimensions (mm)	Quantity per box	Ordering number
BCS703 A	Amber	1.2	355 x 100 x 100	1	9104 033 37880
BCS703 G	Green				9104 033 37980
BCS703 B	Blue				9104 033 38080
BCS703 R	Red				9104 033 38180
BCS703 W	White				9104 033 38280
BCS706 A	Amber	2.4	645 x 100 x 100		9104 033 38380
BCS706 G	Green				9104 033 38480
BCS706 B	Blue				9104 033 38580
BCS706 R	Red				9104 033 38680
BCS706 W	White				9104 033 38780
BCS709 A	Amber	3.6	935 x 100 x 100		9104 033 38880
BCS709 G	Green				9104 033 38980
BCS709 B	Blue				9104 033 39080
BCS709 R	Red				9104 033 39180
BCS709 W	White				9104 033 39280
BCS712 A	Amber	4.8	1225 x 100 x 100		9104 033 39380
BCS712 G	Green				9104 033 39480
BCS712 B	Blue				9104 033 39580
BCS712 R	Red				9104 033 39680
BCS712 W	White				9104 033 39780

LedSpot

Ordering Data								
Type	Color	Dominant wavelength	Net weight (kg)	Total weight (kg)	Product dimensions (mm)	Packing dimensions (mm)	Quantity per box	Ordering number
BGS066/1 B	Blue	459nm ~ 486nm	0.6	16	85 x 85 x 63.5	518 x 391 x 196	24	9104 019 72280
BGS066/1 G	Green	519nm ~ 541nm						9104 019 72380
BGS066/1 A	Amber	587nm ~ 597nm						9104 019 72180
BGS066/1 R	Red	622nm ~ 645nm						9104 033 30080
BGS066/1 W	White	4500K ~ 8000K						9104 019 72480

LedStep-Square

Ordering Data								
Type	Color	Dominant wavelength	Net weight (kg)	Total weight (kg)	Product dimensions (mm)	Packing dimensions (mm)	Quantity per box	Ordering number
BBS420/10 B	Blue	460nm ~ 480nm	1.65	41	130 x 130 x 104.5	638 x 481 x 272	24	9104 033 30180
BBS420/10 G	Green	519nm ~ 541nm						9104 033 30280
BBS420/10 A	Amber	587nm ~ 597nm						9104 033 30480
BBS420/10 R	Red	622nm ~ 645nm						9104 033 30380
BBS420/2 W	White	4500K ~ 8000K						9104 033 30580

LedUplight 100mm

Ordering Data								
Type	Color	Dominant wavelength	Net weight (kg)	Total weight (kg)	Product dimensions (mm)	Packing dimensions (mm)	Quantity per box	Ordering number
BBS400-2/10 B	Blue	460nm ~ 480nm	1.1	28	D110 x 109	558 x 421 x 284	24	9104 019 70780
BBS400-2/10 R	Green	519nm ~ 541nm						9104 019 70880
BBS400-2/10 A	Amber	587nm ~ 597nm						9104 019 70980
BBS400-2/10 R	Red	622nm ~ 645nm						9104 019 71080
BBS400-2/1 W	White	4500K ~ 8000K						9104 019 71180

LedUplight 150mm

Ordering Data								
Type	Color	Dominant wavelength	Net weight (kg)	Total weight (kg)	Product dimensions (mm)	Packing dimensions (mm)	Quantity per box	Ordering number
BBS500/10 B	Blue	460nm ~ 480nm	2	50	D150 x 128.5	22 x 544 x 320	24	9104 019 71480
BBS500/10 G	Green	520nm ~ 550nm						9104 019 71580
BBS500/10 A	Amber	584nm ~ 597nm						9104 019 71680
BBS500/10 R	Red	620.5nm ~ 630.5nm						9104 019 71780
BBS500/2 W	White	4500K ~ 8000K						9104 019 71880

LedString

Ordering Data		
Type	Color	Ordering number
BCS500 A	Amber	9104 033 90980
BCS500 G	Green	9104 033 91280
BCS500 B	Blue	9104 033 91080
BCS500 R	Red	9104 033 91180
Available from Oct 2004		

LedMaster 800 Controller

Ordering Data	
Ordering number	
9104 033 91380	

LedMaster 800 Power Supply

Ordering Data	
Ordering number	
9104 033 91480	